

DERWENT-ACC-NO: 1987-160870  
 DERWENT-WEEK: 198723  
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TITLE: Ruthenium recovery from waste electrolysis electrode - by introducing chlorine gas into heated mixt. of ruthenium (oxide) on metal oxide support and carbon

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PRIORITY-DATA: 1985JP-0234898 (October 21, 1985)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 62096322 A	May 2, 1987	N/A	004	N/A
JP 94057610 B2	August 3, 1994	N/A	003	C01G 055/00

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP62096322A	N/A	1985JP-0234898	October 21, 1985
JP94057610B2	N/A	1985JP-0234898	October 21, 1985
JP94057610B2	Based on	JP62096322	N/A

INT-CL\_(IPC): B01J038/00; C01G055/00

ABSTRACTED-PUB-NO: JP62096322A

{ BASIC-ABSTRACT: Chlorine gas is supplied to a heated mixt. contg. Ru (oxide) and metal oxide support in the presence of carbon. The metal oxide is changed to chloride, and the chloride vaporised to recover Ru.

[ Heating is carried out above dissociation temp. of Ru chloride and b.pt. of metal chloride, i.e. 600-1000 deg.C. Ru (oxide) and metal oxide are changed to their chlorides. When heated above dissociation temp., metal oxide and carbon are excess to Cl<sub>2</sub>. The Cl<sub>2</sub> reaction effectively goes to completion. Ru chloride formed is easily dissociated to Ru metal. ]As metal chloride does not generally dissociate, and b.pt. of metal chloride is below dissociation temp. or Ru, metal chloride is sepd. as gas.

USE/ADVANTAGE - To recover Ru from waste insol. electrode used in electrolysis. Ru is recovered economically and in a short time from the metal oxide support.

CHOSEN-DRAWING: Dwg.0/1

TITLE-TERMS:

RUTHENIUM RECOVER WASTE ELECTROLYTIC ELECTRODE INTRODUCING

CHLORINE GAS HEAT  
MIXTURE RUTHENIUM OXIDE METAL OXIDE SUPPORT CARBON

DERWENT-CLASS: E31 M25

CPI-CODES: E35-X; M25-G28;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

A544 A940 C017 C100 C730 C801 C803 C804 C805 C806

C807 M411 M720 M903 M904 N515 Q469

Specific Compounds

06070P

Registry Numbers

87140 1286M

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1781S

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-067121